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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,637	02/09/2004	Ghassem Zarbi		3218

7590 12/13/2005
Adam H. Jacobs
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EXAMINER

HUSBAND, SARAH E

ART UNIT PAPER NUMBER

1746

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/774,637	Applicant(s) ZARBI ET AL.	
	Examiner Sarah E. Husband	Art Unit 1746	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 February 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 February 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a) because they fail to show Item 22 as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either “Replacement Sheet” or “New Sheet” pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

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The disclosure is objected to because of the following informalities: page 12, line 24 describes an air deflection plate (18), which is also listed as (28) in line 27 and the inner edge (22) is not shown in the drawings.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stirn (US Patent No. 5,071,069) in view of Hummel (DE 4022073 C1) or Schmidt (DE 4241804 A1).

Stirn discloses a pressure cleaner having an improved cooling fan mechanism with a drive gear (pulley) rotatably mounted within the pressure washer and the pulley is driven by a motor (Fig. 2, 3, Items 17, 16, 2). Stirn also discloses a fan with blades attached to the motor which forces air through the motor in order to cool the motor (Fig. 2, Item 5). Stirn does not specifically disclose the fan integral with the pulley mechanism. However, Hummel or Schmidt teaches fan blades inside the rims of the pulleys (abstract, Fig. 1; abstract, Fig. 3, respectively). Stirn, Hummel or Schmidt also discloses the fan blades being angled shown in the drawings or specifications. The design of fan blades is well known and one of ordinary skill in the art would

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readily foresee using a common angled fan blade in the design, especially in Schmidt where angled fan blades with curvature are clearly shown in Figure 3. At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Stirn with Hummel or Schmidt for the benefit of a more compact, simplistic design for cooling the motor.

Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over King (US Patent No. 3,341,081) in view of Hummel or Schmidt and further in view of Erickson (US Patent No. 4,851,017).

King discloses a spraying apparatus having a motor, pulley, water pump, drive belt and a housing enclosing the structure (See Fig. 1). King does not specifically disclose the drive pulley including a cooling fan mechanism. Hummel and Schmidt both disclose fan blades inside of a drive pulley (see Abstracts and Fig. 1 (Schmidt), Fig. 2, 3 (Hummel)). King also does not specifically describe air inlets and air outlets. However, Erickson discloses a fan cooling a motor and the air inlets and outlets (Fig. 1, air flow indicated by arrows). At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify King with Hummel or Schmidt (see abstracts and figures) and also with Erickson (col. 1, ll. 45-55) for the benefit of a more compact and simplistic design and also for the benefit of quickly cooling the motor.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over King, Hummel or Schmidt, and Erickson as applied to claims 5-10 above, and further in view of Applicant's Specification.

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King, Hummel or Schmidt, and Erickson disclose the apparatus shown above in the 103(a) rejection. They do not disclose a center air-seal disk. However, Applicant discloses in the specification (page 5, ll. 16-18) that a properly designed hub will have a central air-seal disk and therefore it would be obvious to modify King, Hummel or Schmidt, and Erickson with the seal in order for the fan to operate properly.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art not disclosed are Lenhardt (US 4,347,978), Schulze (US 4,480,967), Dalquist (US 5,040,950), Oxman (US 5,165,139), Krarup (US 5,338,162), Heembrock (US 5,853,127), Oka (US 6,079,079), Wicke (US 6,079,385), Wolford (US 3,446,424), Hudson (US 4,982,705), Kern (US 5,899,176) and Anderson (US 2003/0190242), who teach pressure washers or motors with cooling fans.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah E. Husband whose telephone number is (571) 272-8387. The examiner can normally be reached on M-F 7:30-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SEH

MICHAEL BARR
SUPERVISORY PATENT EXAMINER

A handwritten signature in black ink, appearing to read "Michael Barr", written over the printed name and title.